Serial No.: Not yet assigned (617) 310-8327 Natasha C. Us Reg. No. 44,381 Docket No.: ASC-022CPCN INFORMAL 100 Sheet 1 of 15 Express Mail Mailing Label No. EV289511652US 0.85 Sio.746eo.26, 1018 cm - 3 p 766e0.24,10¹⁸cm-3p 0.34 510.78Geo.22,1018cm-3p 0.34 Sig.80 Geo. 20,10 18 cm -3 p 0.85 Si_{0.82}Ge_{0.18},10¹⁸cm⁻³p 0.34 Sio.84 Geo.16,1018cm-3p 0.34 Si0866e014,1018cm-3p 0.85 Si0.88 Geo.12,1018cm-3p 0.34 Sio.90Geo.10,1018cm-3p 0.34 Sigg26e0.08,1018cm-3p 0.85 Si_{0.94}Ge_{0.06},10¹⁸cm⁻³P 0.34 510.96Ge0.04,1018cm-3p 0.34 510.98 Geo.02,1018 cm-3p 1.20 0.40 Sio.98 Geo.02 5i0.98Ge0.02,5xI0²⁰cm⁻³B 1.60 Si.

"Etch Stop Layer System" by Wu et al.

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FIG. 1A

14 Si0.84 Ge0.17 0.34 510.80 GE0.13 0.34 Si0.88 GE0.12 0.34 Si0.90GE0.10 0.34 Sing/Geo.09 0.34 SingaGe0.07 0.34 5in.94Ge0.06 0.34 510.96GE0.04 0.34 Sio.976e0.03 0.34 510.99Ge0.01 Si

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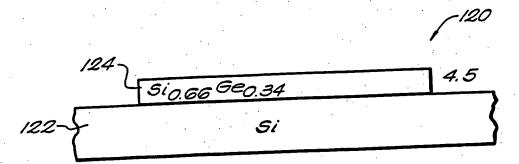


FIG. IC

		-130
	Sio.70 ^{Ge} 0.30;4×10 ¹⁶ cm ⁻³ 8	5
	Giana General ZXIO CITI D	0.5
	Singe Gen DA, IXIO CM D	0.5
	Singa Gengi. 9XIO'CM CD	0.5 0.5
	Sin an Gen 18.8×1010 cm 5	0.5
134	SINGEGENIS, 7X10 CMI D	0.5
	510.88 Geo.12, Gx10 15 cm - 3 B	0.5
	510.91 Ge0.09,5×10 15cm-3B 510.94 Ge0.06,4×10 15cm-3B	0.5
	Sio.97Geo.03,3x1015cm-3B	0.5
1327	Sı	
	- ~ 1 D	

FIG. 1D

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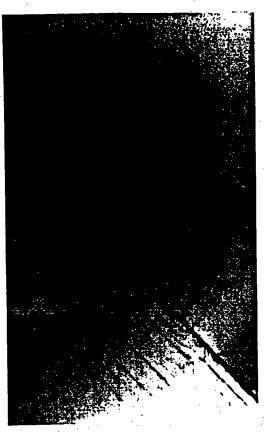
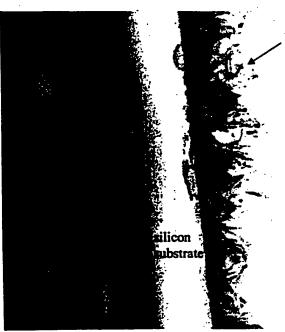


FIG. 2

1.5 µm



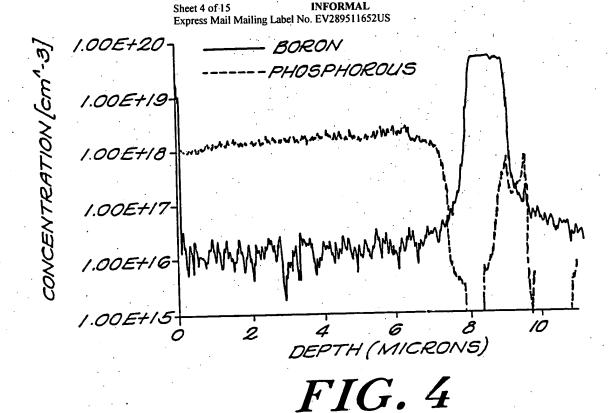
threading dislocations

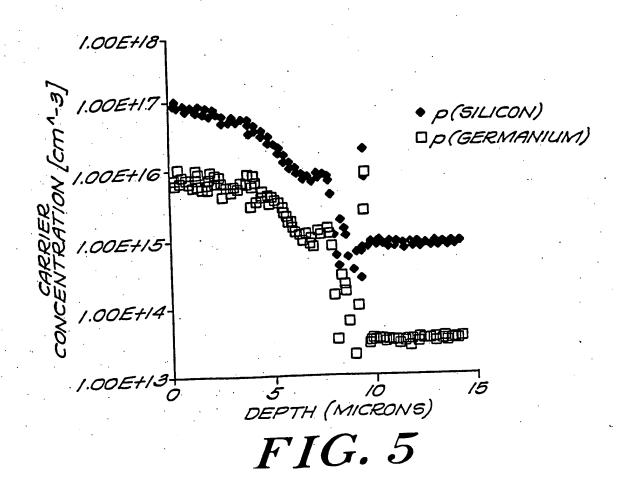
1.3 µm

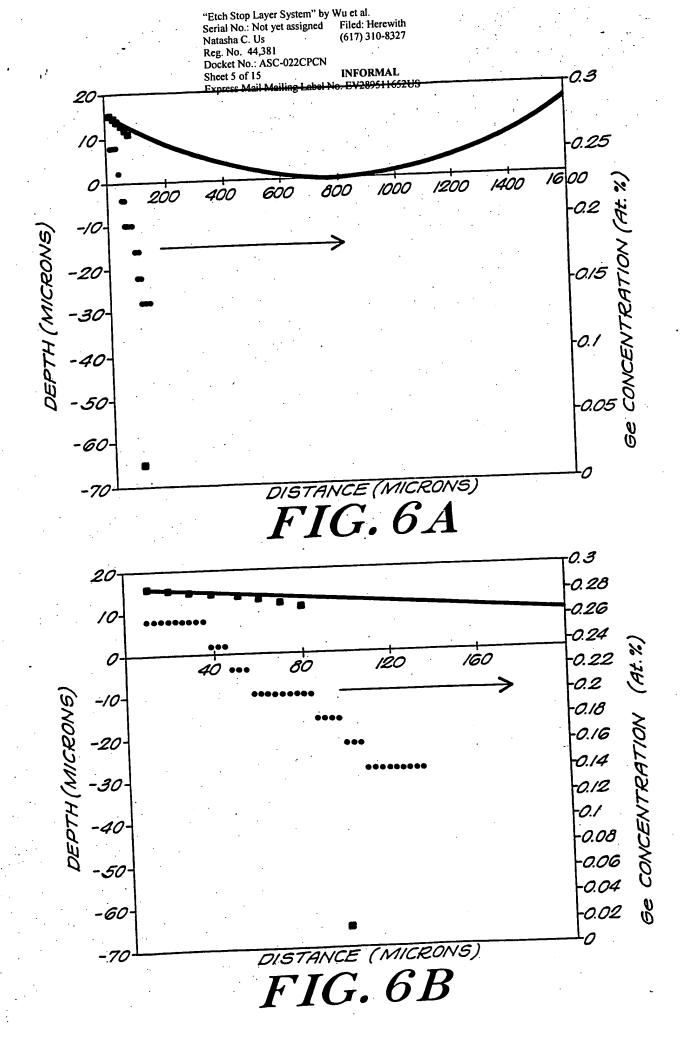
FIG. 3

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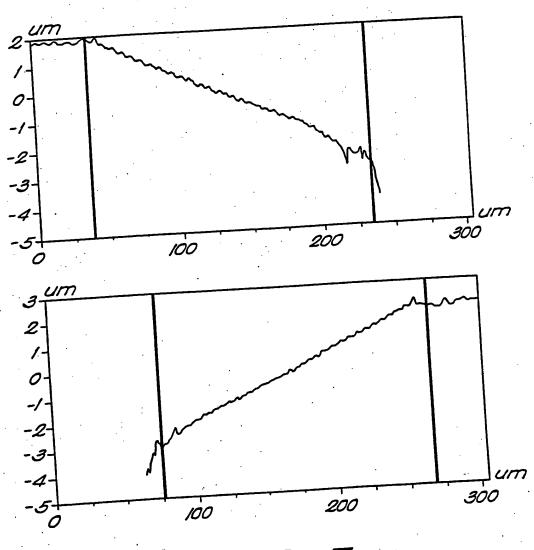
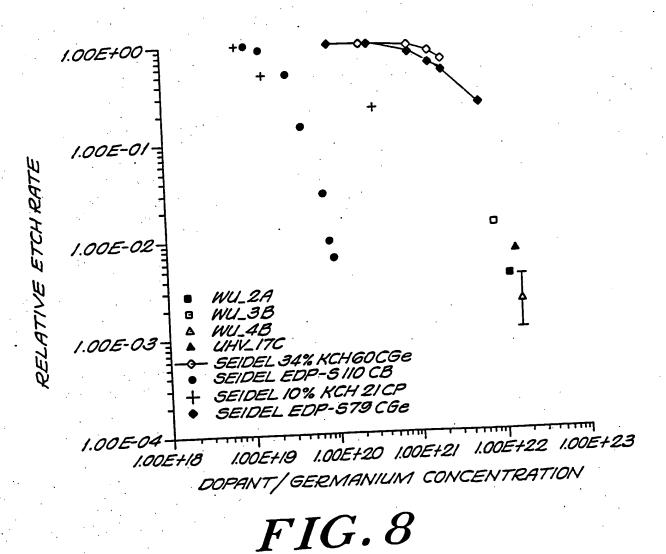


FIG. 7

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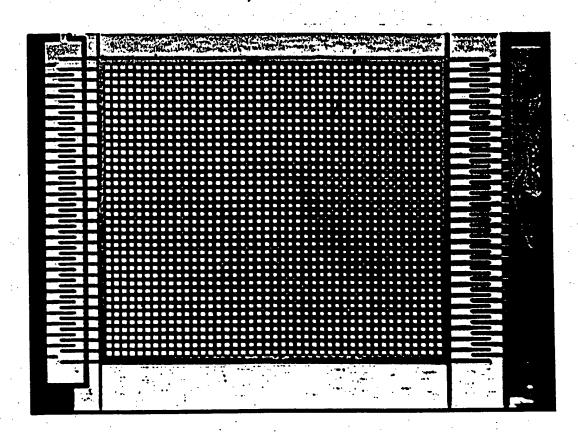
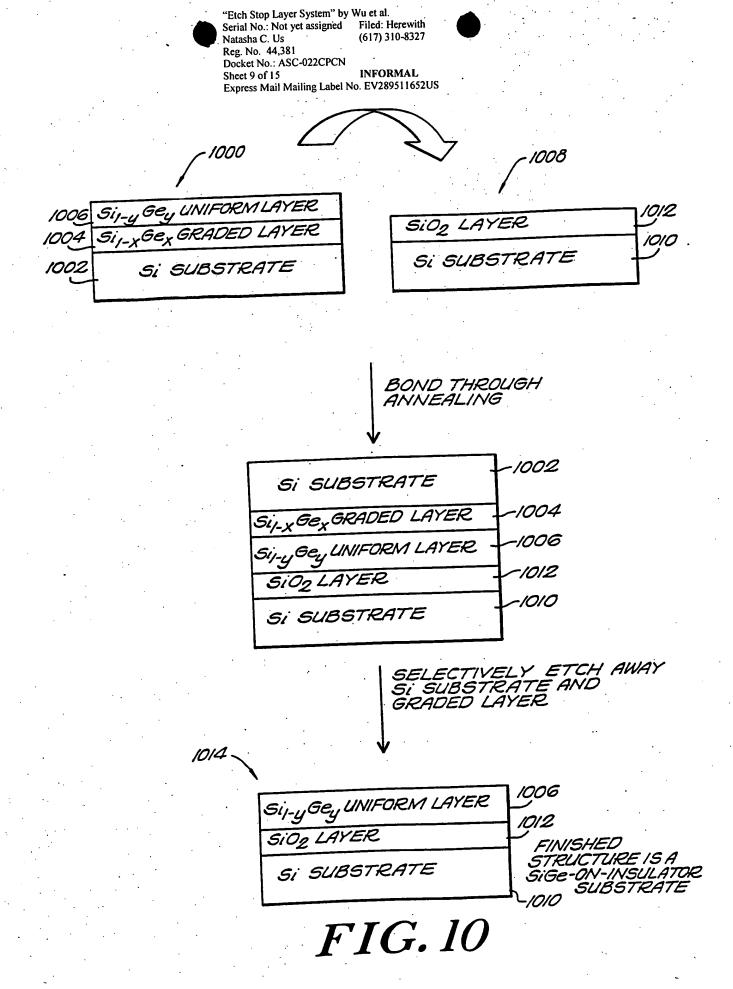


FIG. 9



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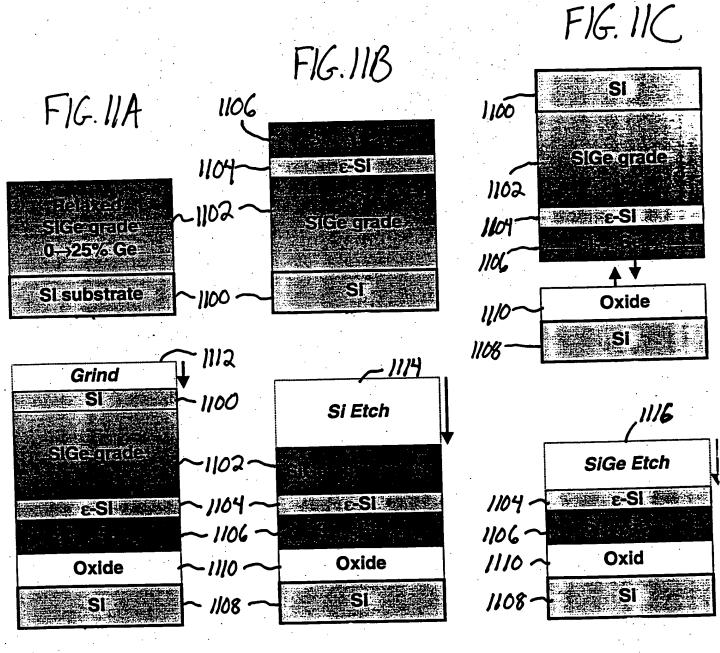


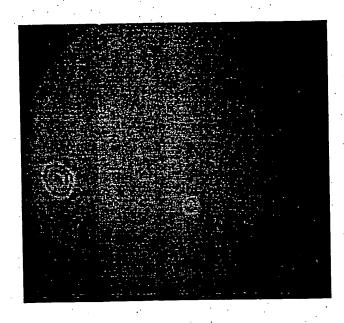
FIG. 11D

FIG. 11E

FIG.11F

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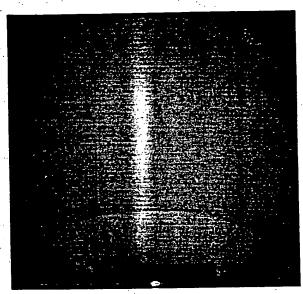


FIG. 12A

F1G. 12B

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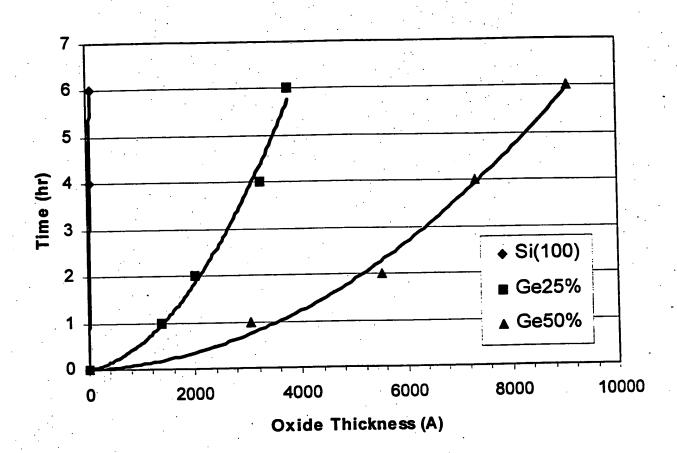
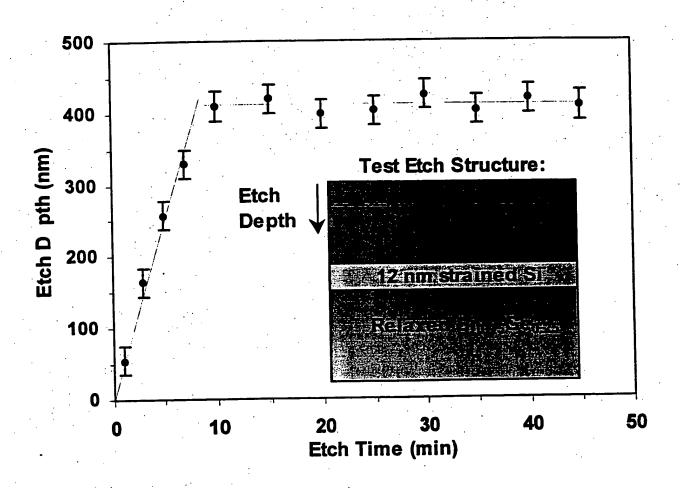


FIG. 13

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FIG. 14



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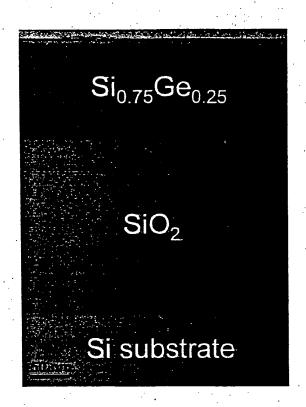


FIG. 15

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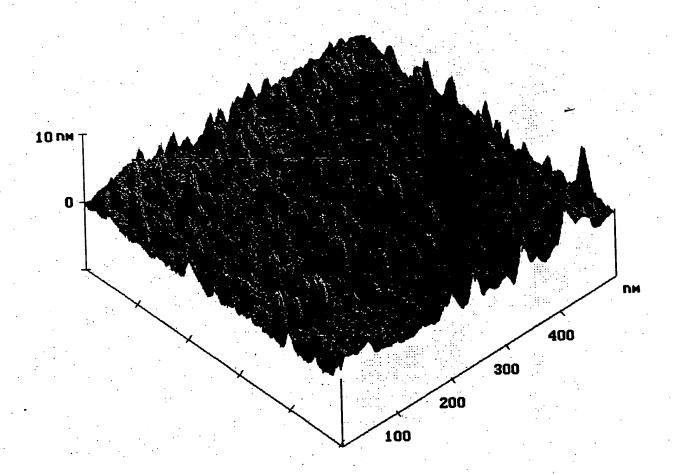


FIG. 16